

Forest Conservation and Stewardship as Tools for Wildlife Adaptation in the Klamath-Cascade

March 2014
Connie Best
Co-CEO



PACIFIC FOREST TRUST

Private Forests. Public Treasures.

Our Mission

Since 1993, the Pacific Forest Trust has been dedicated to conserving and sustaining America's private forests.

We work with diverse partners to develop voluntary, incentive-based conservation solutions to safeguard our nation's vital forests and the communities they support.



PACIFIC FOREST TRUST

Private Forests. Public Treasures.



Connect the
dots between
science,
strategy,
target
landscapes
and tactics –
to benefit
wildlife
adaptation



PACIFIC FOREST TRUST

Private Forests. Public Treasures.

National *fish, wildlife & plants* Climate Adaptation Strategy



NATIONAL *fish, wildlife & plants*
CLIMATE ADAPTATION STRATEGY



1. Conserve & Connect Habitat
2. Manage Species & Habitats
3. Enhance Management Capacity
4. Support Adaptive Management
5. Increase Knowledge & Information
6. Increase Awareness & Motivate Action
7. Reduce Non-Climate Stressors

Released March 2013



PACIFIC FOREST TRUST

Private Forests. Public Treasures.

Prime Strategies relevant to forest conservation

- Conserve areas that provide **high-priority habitats** under current climate conditions and are **likely to be resilient to climate change and/or support a broad array of species in the future;** and
- Conserve **large blocks of contiguous, unfragmented forest** and aim for **representation and redundancy** of all forest types, vegetation mosaics, and natural disturbance regimes.

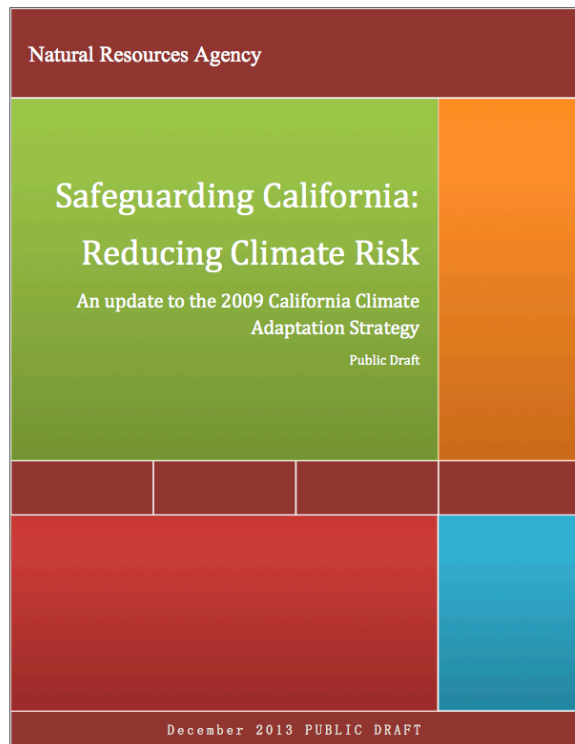


For forests, PFT has adopted these foci from the National Strategy:

- Build **redundancy into the network** of conservation areas;
- **Restore habitat features** . . . to maintain ecosystem function and processes and resiliency;
- **Restore degraded habitats** to support diversity of species assemblages and ecosystem structure and function; and
- **Restore or enhance areas that will provide essential habitat and ecosystem services** during ecosystem transitions in a changing climate.



California's Adaptation Strategy: *Safeguarding California* draft plan



Improving forest resilience a key goal
Recommendations include:

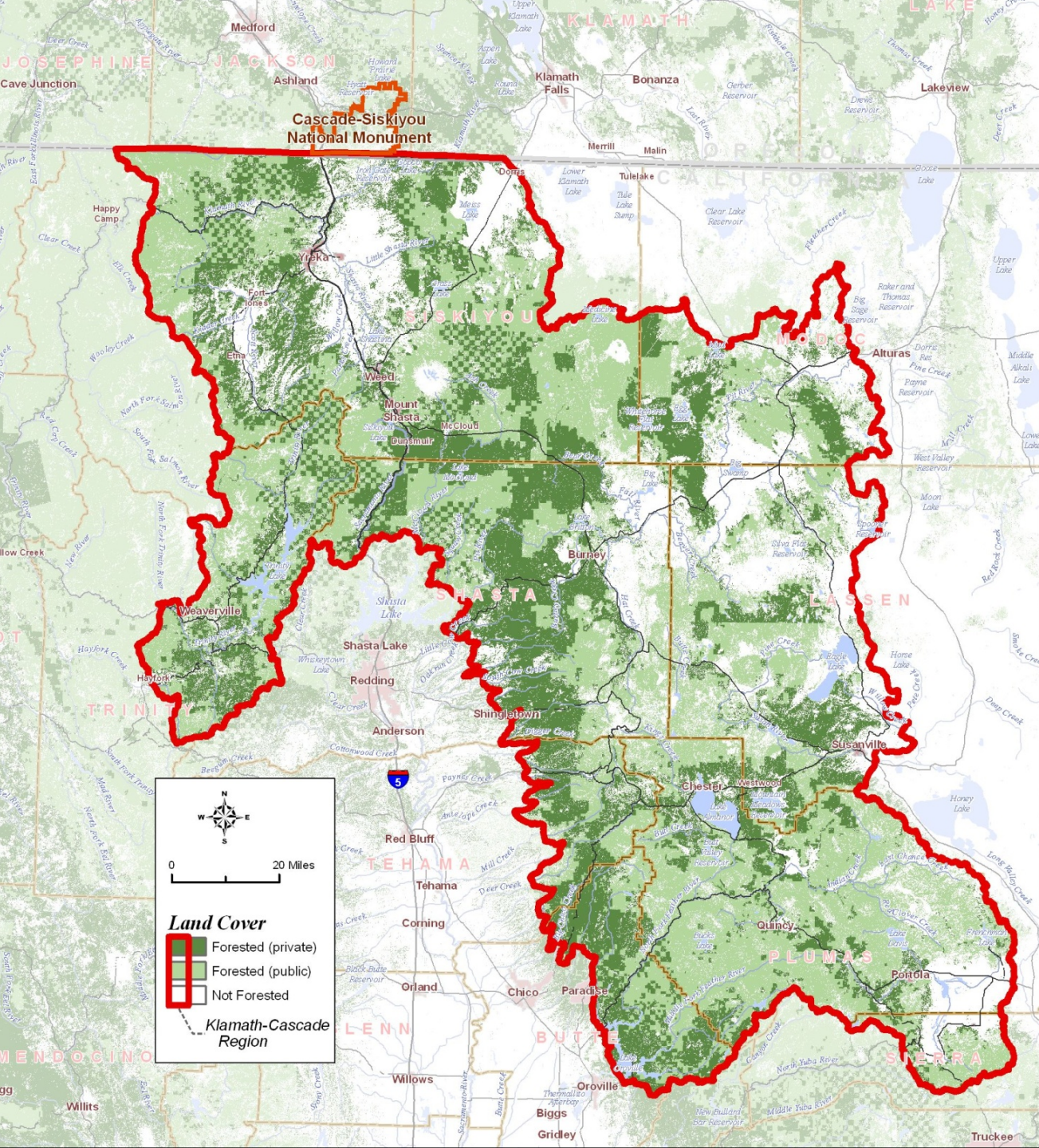
- Identify refugia landscapes
- Promote habitat connectivity
- Conserve landscape features
- Coordinate with state, federal and private landowners
- Address wildfire threats

Released December 2013



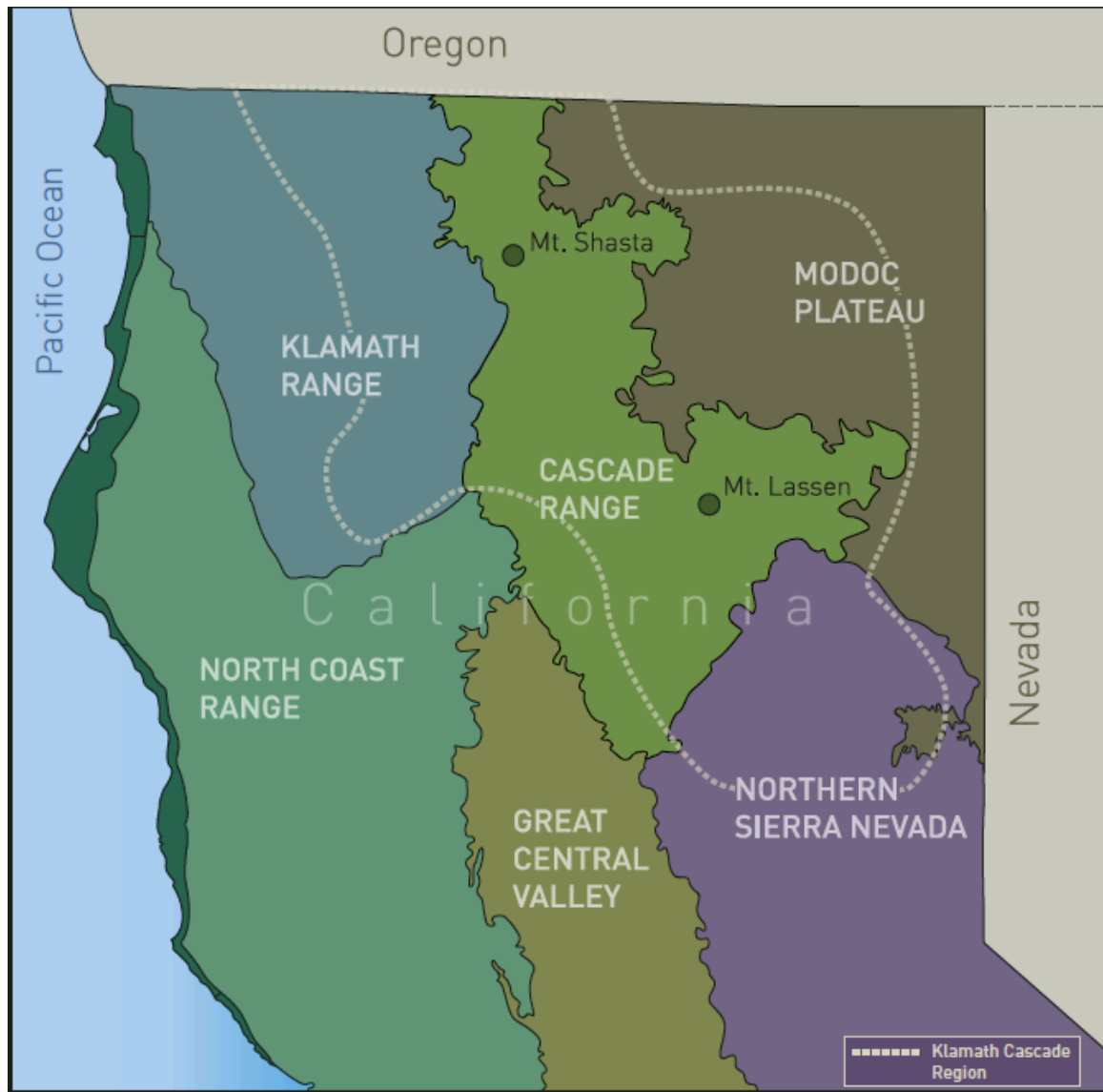
PACIFIC FOREST TRUST

Private Forests. Public Treasures.



**Klamath –
Cascade
region:**

**A “best bet”
for a climate
resilient
landscape**



Eco-regional
cross-roads for
the north state:
Bridge from the
Sierra Nevada
to the Klamath



PACIFIC FOREST TRUST

Private Forests. Public Treasures.

Home to world-class biodiversity



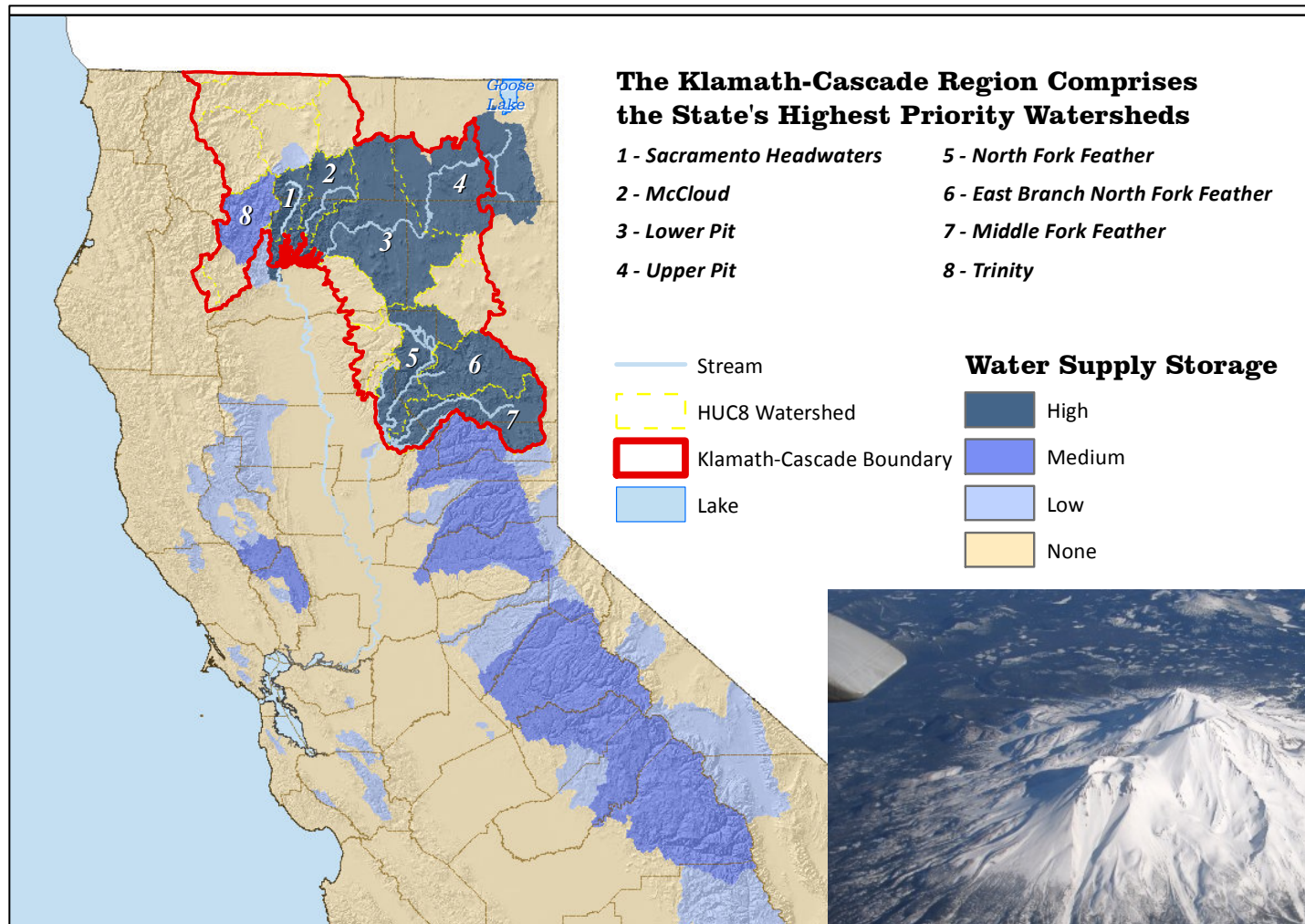
Highly productive confluence of different soils . . . Great elevational differences . . . Diverse aspects . . . Complex landscape forms . . . wide variety of unfragmented habitats



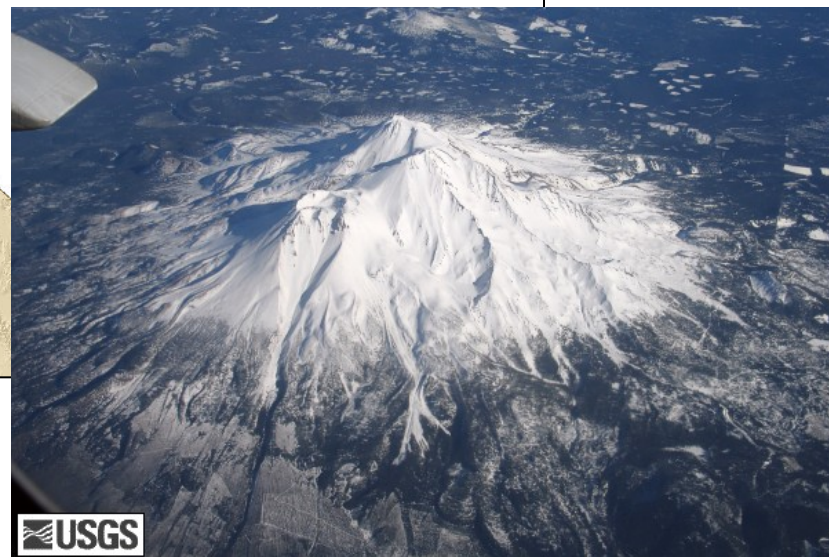
PACIFIC FOREST TRUST

Private Forests. Public Treasures.

California's most abundant water

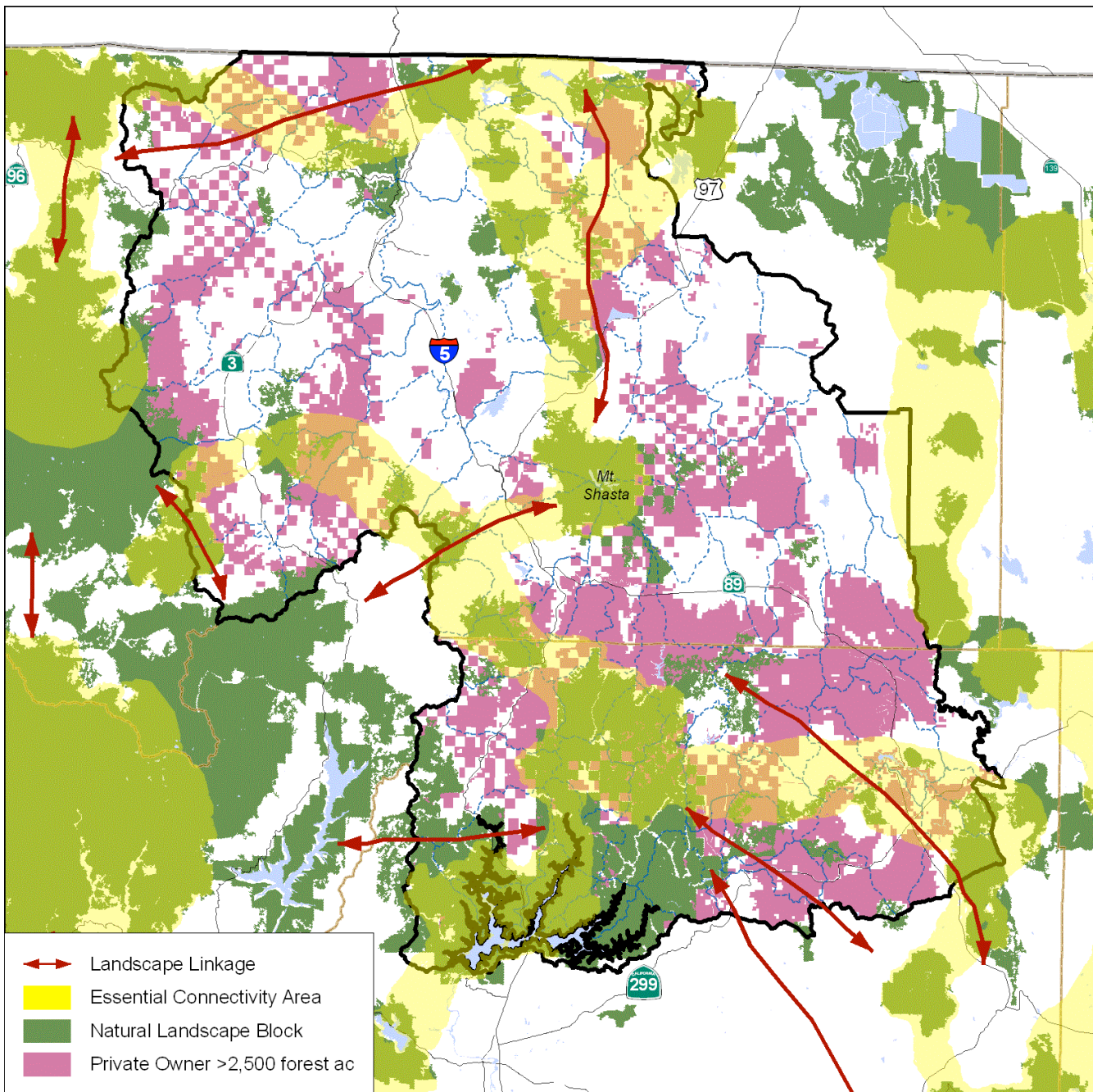


75% of state's precipitation
80 – 85% of flows into Bay Delta



Applying the first rule of real estate: location location location

Create new
conservation
corridors
working with
private forest
owners to knit
together the
public lands



Mount Shasta Headwaters CAPP region

Management for Forest Resiliency

- Cross-boundary, landscape collaboration
- Reduce over-stocking
- Increase heterogeneity in forest structure, seral stages
- Restore special habitats across and within forest:
 - Wet meadows, fens and springs
 - Aspen groves
 - Oaks and other hardwoods



PACIFIC FOREST TRUST

Private Forests. Public Treasures.

Create permanent linkages across public-private ownerships with working forest conservation easements

- A more integrated forest landscape
- More options for wildlife in forests managed for enhanced diversity
- Compensation for private owners making habitat and watershed commitments
- Fine forestry continues



PACIFIC FOREST TRUST

Private Forests. Public Treasures.

Example: Hancock McCloud Project



- Pension fund owner
- Close in to McCloud – fragmentation and development threat
- Creates key links within the Shasta-Trinity Nat'l Forest

Town Block: 12,800 acres

River Block: 5,590 acres



PACIFIC FOREST TRUST

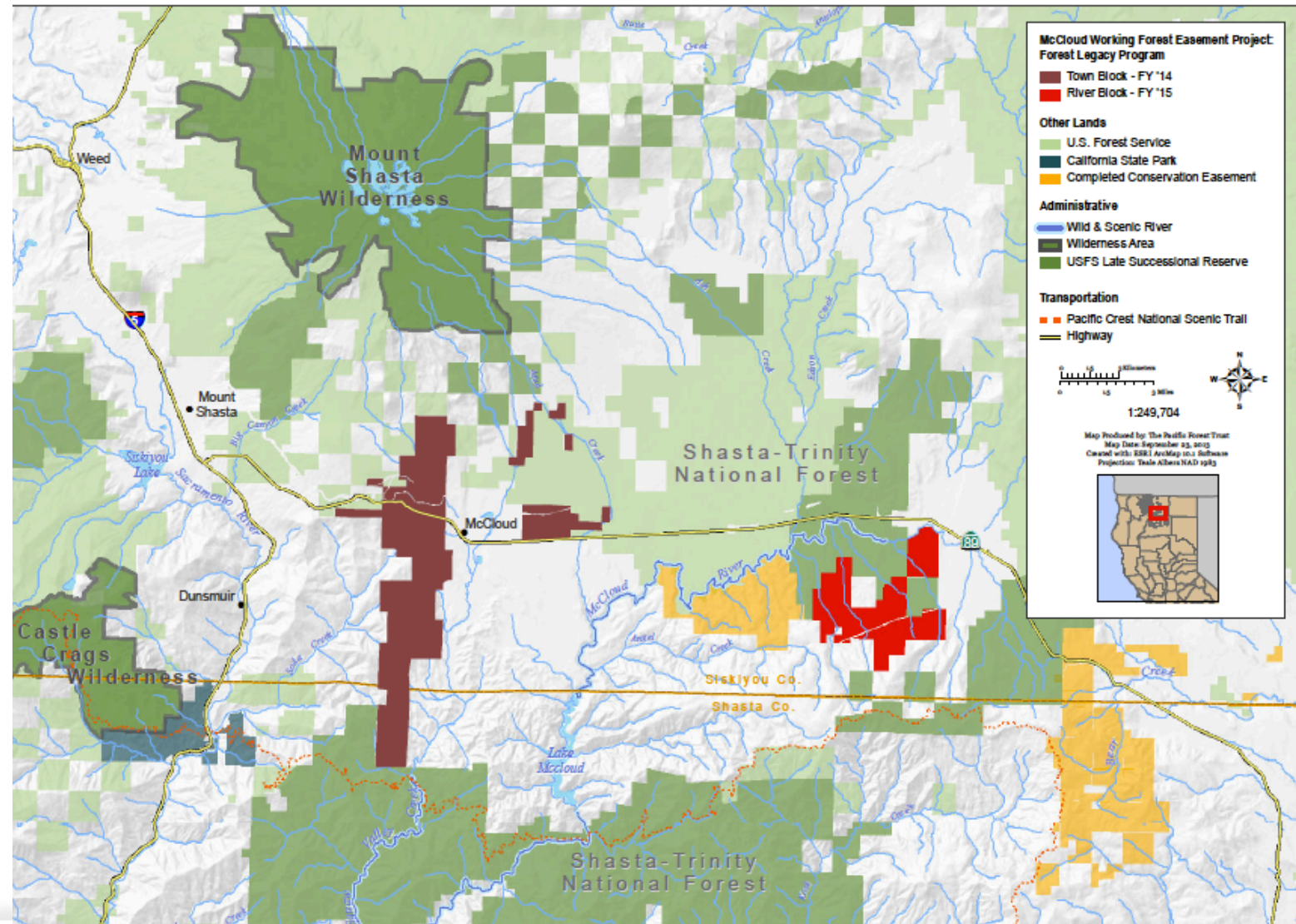
Private Forests. Public Treasures.

Hancock McCloud Working Forest Easement

Vicinity Map



PACIFIC FOREST TRUST



PACIFIC FOREST TRUST

Private Forests. Public Treasures.

Site specific benefits to conserve for regional resiliency

- Cold, clear, spring fed water is key for resiliency
- 80+ miles of streams, 131 springs. 5% of McCloud w.
- High Priority Landscape for state water supplies
- 18 habitat types - 130 species including 8 listed
 - Northern spotted owl, willow flycatcher, Pacific fisher, etc
- Connectivity with NF Late Successional Reserves



Hancock WFCE habitat-oriented terms

- Increase large trees (30" DBH +)
- Increase multi-story stands
- Retain at least 15% of trees in harvest units for more structural complexity in new forest stand
- Harvest less than growth
- Retain/recruit more snags and down wood
- Promote early seral habitat in harvest openings



Special Habitat Management Zones

- 1170+/- acres/ 6% area to be managed for rare habitat values
- Mature forest
- Hardwoods
- Wet meadows, springs
- Aspen/riparian stands



PACIFIC FOREST TRUST

Private Forests. Public Treasures.

Riparian Management Areas

- 5% +/- area
- Class I & II streams managed to restore large trees and multi-story structure
- Seasonal streams will be managed to maintain canopy cover and multi-story structure



*150 foot buffer on Class I
100 foot buffer on Class II
50 foot buffer on Class III*



PACIFIC FOREST TRUST

Private Forests. Public Treasures.

Together we can help fish and wildlife adapt to changing climate



PACIFIC FOREST TRUST

Private Forests. Public Treasures.